INTERNATIONAL SEARCH REPORT

Facsimile No.

International application No. PCT/JP03/13913

A. CLASSI	FICATION OF SUBJECT MATTER		
Int.	C1 ⁷ H01Q3/26		
Į.			
	International Patent Classification (IPC) or to both nation	onal classification and IPC	
According to	International Patent Classification (IPC) of to both hat		
B. FIELDS	SEARCHED	1	
1.		y ciassification symbols) 1487/00	
Int.	C1 ⁷ H01Q3/26-3/30, H01P5/12, H0	,	
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[·		n the fields searched
Documentati	ion searched other than minimum documentation to the		
Titen	wo Shinan Koho 1922-1990	Jitsuyo Shinan Toroku Koho	
Kokai	Ultipayo billian resid		
Electronic de	ata base consulted during the international search (name	of data base and, where practicable, sear	on terms used)
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C. DOCUM	MENTS CONSIDERED TO BE RELEVANT		
	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.
Category*	JP 2002-141849 A (Mitsubishi	Electric Corp.).	1-3,7
Y	JP 2002-141849 A (Mitsubishi 17 May, 2002 (17.05.02),		4
	Full text: all drawings	•	
1	Par. Nos. [0032] to [0035]; F:	ig. 1	
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Y	JP 11-17469 A (NEC Fukushima	100-17	=, :
	22 January, 1999 (22.01.99), Full text; all drawings	ì	
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	01 May, 1991 (01.05.91),		
	Full text; Fig. 1 & CA 2021905 A & EP	416264 A3	
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* Specia	al categories of cited documents: ment defining the general state of the art which is not	io-ity data and not in conflict with t	the application out cited to
00-014	lered to be of particular relevance	understand the principle or theory und	derlying the invention cannot be
"E" earlier	document but published on or after the international filing	considered novel or cannot be considered	ered to involve an inventive
"L" docum	nent which may throw doubts on priority claim(s) or which is	step when the document is taken alon	e claimed invention cannot be
cited t	to establish the publication date of another citation of other	considered to involve an inventive ste	ed when the accument is
"O" docun	nent referring to an oral disclosure, use, exhibition or other	combination being obvious to a perso	on skilled in the art
means	nent published prior to the international filing date but later	"&" document member of the same patent	t tamily
than th	he priority date claimed	Date of mailing of the international sea	rch report
Date of the	actual completion of the international search January, 2004 (09.01.04)	27 January, 2004 (27.01.04)
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		Authorized officer	
Name and	mailing address of the ISA/	Authorized officer	
Jap.	anese Patent Office		
Partic Healie		Telephone No.	

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PCT/JP03/13913

ategory*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 62-30406 U (Mitsubishi Electric Corp.), 24 February, 1987 (24.02.87), Full text; all drawings (Family: none)	1
Y	JP 2002-196834 A (Matsushita Electric Industrial Co., Ltd.), 19 July, 2001 (19.07.01), Full text; all drawings & WO 01/52446 A1 & AU 2553901 A & EP 1161002 A1 & CN 1358358 T	2
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